CS/2110 5247/NH

aTotal No. of sheet used : [redacted]
Subject : Object Oriented Programming using C++
Class : [redacted] Semester V
Paper : BAP-301
Title of Paper : Object Oriented Programming using C++
Time Allowed : 3 Hours
Maximum Marks: 60 Minimum Pass Marks : 35%

Note: Attempt five questions in all selecting at least one question from each Section A, B, C and Section D and the entire section E.
Use of Non-programmable scientific calculator is allowed.

SECTION A

Q1.		Define and distinguish between functional and object oriented programming.	12
Q2.		Elaborate with examples various input and output statements supported by C++.	12
Q3.		What do you mean by structure? How structures are different from union? Explain with the help of suitable examples.	12
Q4.		Differentiate the following	
	a)	Break and continue statement	04
	b)	Automatic variable and external variable	04
	c)	Call by value and call by reference	04

SECTION B

Q5.		What is the purpose of friend functions and friend classes? Explain with the help of suitable examples.	12
Q6.		Define constructor. What are the properties of constructors? What are the various types of constructors? Explain.	12
Q7.		Define inheritance. What are various types of inheritance? How ambiguity is resolved in multiple inheritances? Explain giving suitable examples.	12
Q8.		Discuss the following in brief	
	a)	Nested class	04
	b)	Polymorphism	04
	c)	Pointer to object	04

SECTION C

Q9.	a)	What do you mean by reference variable?	02
	b)	What is function prototype?	02
	c)	What are virtual functions?	02
	d)	Write the use of new and delete operators.	02
	e)	What is the use of This pointer?	02
	f)	What do you mean by destructor	02